DF20AA120/160

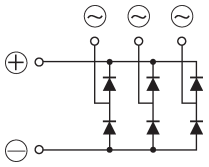
UL;E76102 (M)

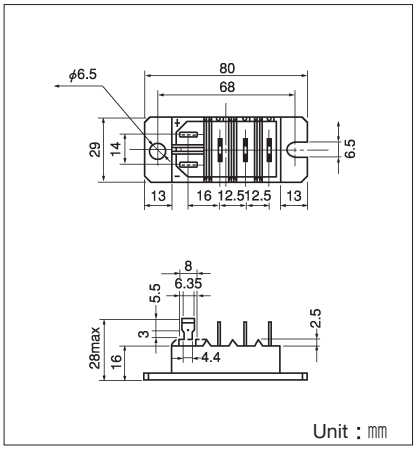
Power Diode Module **DF20AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 20Amp (Tc=119℃) Repetitive peak reverse voltage is up to 1,600V.

- TjMax=150℃
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab

(Applications)

AC. DC Moter Drive/AVR/Switching
—for three phase rectification





■Maximum Ratings

(Tj=25℃)

Symbol	Item	Ratings		Unit
		DF20AA120	DF20AA160	
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	Item		Conditions	Ratings	Unit
ID	Output current (D.C.)		Three phase. full wave. Tc=119℃	20	A
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	220/240	A
Tj	Junction Temperature			−40～+150	℃
Tstg	Storage Temperature			−40～+125	℃
VISO	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5～3.9 (25～40)	4.7 (48)	N·m (kgf·cm)
		Terminal	Tub Terminal #250	—	
	Mass		Typical Value	90	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150℃ at VRRM	3.0	mA
VFM	Forward Voltage Drop, max.	IFM=20A, Tj=25℃ Inst. measurement	1.25	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.6	℃/W